

Appl No. 10/045,698

Amdt. dated May 17, 2006

Reply to Office Action of November 30, 2005

Atty. Ref. 81800.0177

Customer No. 26021

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A relay server comprising:

communicating means for communicating with a plurality of network devices using TCP/IP connections that are established and held in response to login demands from the plurality of network devices, including a first network device in a first local area network (LAN) and a second network device in a second LAN; and

connection information holding means for holding connection information of a first held TCP/IP connection between the relay server and the first network device and a second held TCP/IP connection between the relay server and the second network device,

wherein the communicating means carries out communication between the first and second network devices by using the first and second held TCP/IP connections, and relays data between the first and second network devices in accordance with connection demand information generated from one of the first and second network devices.

2. (Currently amended) A communication system comprising:

a plurality of network devices, including at least a first network device in a first local area network (LAN) and a second network device in a second LAN; and

a relay server connected to the plurality of network devices via a network, wherein the first network device logs into and establishes a first ~~communication path~~ held TCP/IP connection with the relay server, the second network device logs into and establishes a second ~~communication path~~ held TCP/IP connection with the relay server, and the first network device generates a connection demand for communication with the second network device, and

the relay server relays the communication between the first and second network devices by using the first and second ~~communication paths~~ held TCP/IP

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connections established in advance in accordance with the connection demand from the first network device.

3. (Previously presented) The communication system according to claim 2 wherein connection to the first network device from outside the first LAN is limited.

4. (Previously presented) The communication system according to claim 2 wherein the first network device is connected to the relay server via a gateway device having an address converting function.

5-7. (Canceled)

8. (Currently amended) A relay server comprising:

a communicating device communicating with a plurality of network devices using TCP/IP connections that are established and held in response to login demands from the plurality of network devices, including a first network device in a first local area network (LAN) and a second network device in a second LAN; and

a connection information holding device holding connection information of a first held TCP/IP connection between the relay server and the first network device and a second held TCP/IP connection between the relay server and the second network device,

wherein the communicating device carries out communication between the first and second network devices by using the first and second held TCP/IP connections, and relays data between the first and second network devices in accordance with connection demand information generated from one of the first and second network devices.

9. (Previously presented) The relay server according to claim 8, wherein connection to the first network device from outside the first LAN is limited.

10. (Previously presented) The relay server according to claim 8, wherein the first network device is connected to the relay sever via a gateway device having an address converting function.

11. (Previously presented) The relay server according to claim 8, wherein the relay server is connected to the Internet.

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12. (Previously presented) The relay server according to claim 8, wherein the relay server includes a global IP address.

13. (Previously presented) The relay server according to claim 8, wherein the connection information includes a user ID and a password.

14. (Previously presented) The relay server according to claim 1, wherein the relay server is connected to the Internet.

15. (Previously presented) The relay server according to claim 1, wherein the relay server includes a global IP address.

16. (Previously presented) The relay server according to claim 1, wherein the connection information includes a user ID and a password.

17. (Currently amended) A method for communicating between a plurality of network devices and a relay server comprising:

establishing and holding a ~~communication path~~ TCP/IP connection between each of a plurality of network devices and a relay server in response to login demands from the plurality of network devices;

demanding a connection from one of the plurality of network devices to at least one other network device of the plurality of network devices using the relay server; and

relaying a communication between the one network device and the at least one other network device using the held ~~communication path~~ TCP/IP connection between the one network device and the relay server and the held communication path between the at least one other network device and the relay server.

18. (Previously presented) The communication method according to claim 17 further comprising limiting the connection to the network devices from an outer network.

19. (Previously presented) The communication method according to claim 17 further comprising connecting the network devices to the relay server via a gateway device having an address converting function.

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20. (Previously presented) The communication method according to claim 17 further comprising connecting the relay server to the Internet.